

# Haotian Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,942  
citations

218381

26  
h-index

377514

34  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3223  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Compressible Integrated Supercapacitorâ€“Piezoresistanceâ€“Sensor System with CNTâ€“PDMS Sponge for Health Monitoring. <i>Small</i> , 2017, 13, 1702091.	5.2	261
2	Self-powered electronic skin based on the triboelectric generator. <i>Nano Energy</i> , 2019, 56, 252-268.	8.2	205
3	Flexible fiber-based hybrid nanogenerator for biomechanical energy harvesting and physiological monitoring. <i>Nano Energy</i> , 2017, 38, 43-50.	8.2	201
4	High efficiency power management and charge boosting strategy for a triboelectric nanogenerator. <i>Nano Energy</i> , 2017, 38, 438-446.	8.2	174
5	Self-Powered Analogue Smart Skin. <i>ACS Nano</i> , 2016, 10, 4083-4091.	7.3	153
6	Omnidirectional Bending and Pressure Sensor Based on Stretchable CNT-PU Sponge. <i>Advanced Functional Materials</i> , 2017, 27, 1604434.	7.8	148
7	Power management and effective energy storage of pulsed output from triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 61, 517-532.	8.2	135
8	Single-Step Fluorocarbon Plasma Treatment-Induced Wrinkle Structure for High-Performance Triboelectric Nanogenerator. <i>Small</i> , 2016, 12, 229-236.	5.2	134
9	Hybrid porous micro structured finger skin inspired self-powered electronic skin system for pressure sensing and sliding detection. <i>Nano Energy</i> , 2018, 51, 496-503.	8.2	131
10	Fingertip-inspired electronic skin based on triboelectric sliding sensing and porous piezoresistive pressure detection. <i>Nano Energy</i> , 2017, 40, 65-72.	8.2	120
11	Integrated self-charging power unit with flexible supercapacitor and triboelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14298-14306.	5.2	117
12	High-efficiency self-charging smart bracelet for portable electronics. <i>Nano Energy</i> , 2019, 55, 29-36.	8.2	116
13	A wave-shaped hybrid piezoelectric and triboelectric nanogenerator based on P(VDF-TrFE) nanofibers. <i>Nanoscale</i> , 2017, 9, 1263-1270.	2.8	111
14	An ultrathin stretchable triboelectric nanogenerator with coplanar electrode for energy harvesting and gesture sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12361-12368.	5.2	86
15	Selfâ€“Powered Noncontact Electronic Skin for Motion Sensing. <i>Advanced Functional Materials</i> , 2018, 28, 1704641.	7.8	83
16	Skin-Inspired Humidity and Pressure Sensor with a Wrinkle-on-Sponge Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39219-39227.	4.0	82
17	All-in-one piezoresistive-sensing patch integrated with micro-supercapacitor. <i>Nano Energy</i> , 2018, 53, 189-197.	8.2	79
18	Waterproof and stretchable triboelectric nanogenerator for biomechanical energy harvesting and self-powered sensing. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	67

#	ARTICLE	IF	CITATIONS
19	Hybrid generator based on freestanding magnet as all-direction in-plane energy harvester and vibration sensor. <i>Nano Energy</i> , 2018, 49, 51-58.	8.2	63
20	All-fabric-based wearable self-charging power cloth. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	62
21	Controlled fabrication of nanoscale wrinkle structure by fluorocarbon plasma for highly transparent triboelectric nanogenerator. <i>Microsystems and Nanoengineering</i> , 2017, 3, 16074.	3.4	54
22	Self-Powered Multifunctional Electronic Skin for a Smart Anti-Counterfeiting Signature System. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22357-22364.	4.0	51
23	Self-powered digital-analog hybrid electronic skin for noncontact displacement sensing. <i>Nano Energy</i> , 2019, 58, 121-129.	8.2	48
24	Asymmetrical Triboelectric Nanogenerator with Controllable Direct Electrostatic Discharge. <i>Advanced Functional Materials</i> , 2016, 26, 5524-5533.	7.8	43
25	Electrification based devices with encapsulated liquid for energy harvesting, multifunctional sensing, and self-powered visualized detection. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7382-7388.	5.2	39
26	Digitalized self-powered strain gauge for static and dynamic measurement. <i>Nano Energy</i> , 2017, 42, 129-137.	8.2	31
27	Microsphere-Assisted Robust Epidermal Strain Gauge for Static and Dynamic Gesture Recognition. <i>Small</i> , 2017, 13, 1702108.	5.2	26
28	Soft Human-Machine Interface with Triboelectric Patterns and Archimedes Spiral Electrodes for Enhanced Motion Detection. <i>Advanced Functional Materials</i> , 2021, 31, 2103075.	7.8	26
29	Microscale Liquid Metal Conductors for Stretchable and Transparent Electronics. <i>Advanced Materials Technologies</i> , 2021, 6, 2100690.	3.0	16
30	Highly compression-tolerant folded carbon nanotube/paper as solid-state supercapacitor electrode. <i>Micro and Nano Letters</i> , 2016, 11, 586-590.	0.6	12
31	Electronic Skins for Healthcare Monitoring and Smart Prostheses. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021, 4, 629-650.	7.5	12
32	Fabrication of controlled hierarchical wrinkle structures on polydimethylsiloxane via one-step $C_{4}F_{8}$ plasma treatment. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 015007.	1.5	9
33	Localized modulus-controlled PDMS substrate for 2D and 3D stretchable electronics. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 045001.	1.5	9
34	Ultra-sensitive transparent and stretchable pressure sensor with single electrode. , 2016, , .		8
35	Development and Evaluation of a Sensor Glove to Detect Grasp Intention for a Wearable Robotic Hand Exoskeleton. , 2020, , .		7
36	A high-efficiency transparent electrification-based generator for harvesting droplet energy. , 2015, , .		5

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37	A flexible and wearable generator with fluorocarbon plasma induced wrinkle structure. , 2016, , .		4
38	Stretchable, transparent and wearable sensor for multifunctional smart skins. , 2017, , .		4
39	Jagged discharge electrodes powered by triboelectric generator. Micro and Nano Letters, 2015, 10, 537-540.	0.6	2
40	Liquid metal droplet based tube-shaped electrostatic energy harvester. , 2016, , .		2
41	Fingerprint-inspired triboelectric sliding sensor. , 2018, , .		2
42	Triboelectrification based active sensor for liquid flow and bubble detecting. , 2017, , .		1
43	Stretchable thin-film generator with dual working modes for body motion energy harvesting. , 2017, , .		1
44	Bioinspired microporous elastomer with enhanced and tunable stretchability for strain sensing device. , 2017, , .		1
45	Freestanding solid-state micro-supercapacitor based on laser-patterned nanofibers. , 2017, , .		0
46	Conductive composite-based tactile sensor. , 2021, , 67-90.		0